



2" PITOTLESS NOZZLE™

PN2GRV

FLOW CHART

10 - 50 PSI	Little Hose Monster™	Open Atmosphere
PSI	GPM	GPM
10	493	529
11	517	555
12	540	579
13	562	603
14	584	626
15	604	648
16	624	669
17	643	689
18	662	709
19	680	729
20	698	748
21	715	766
22	732	784
23	748	802
24	764	819
25	780	836
26	795	853
27	811	869
28	825	885
29	840	900
30	854	916
31	869	931
32	882	946
33	896	960
34	910	975
35	923	989
36	936	1003
37	949	1017
38	962	1031
39	974	1044
40	987	1057
41	999	1071
42	1011	1084
43	1023	1096
44	1035	1109
45	1046	1122
46	1058	1134
47	1069	1146
48	1081	1158
49	1092	1170
50	1103	1182

51 - 70 PSI	Little Hose Monster™	Open Atmosphere
PSI	GPM	GPM
51	1114	1194
52	1125	1206
53	1136	1217
54	1146	1229
55	1157	1240
56	1167	1251
57	1178	1262
58	1188	1273
59	1198	1284
60	1208	1295
61	1218	1306
62	1228	1317
63	1238	1327
64	1248	1338
65	1258	1348
66	1267	1358
67	1277	1369
68	1286	1379
69	1296	1389
70	1305	1399

Key Flow Test Points	Little Hose Monster™	Open Atmosphere
GPM	PSI	PSI
500	10.7	9.1
562.5	13.0	11.3
750	23.1	20.1
1000	41.1	35.8
1125	52.0	45.3
1500	92.5	80.5

The readings on this chart are based on which device the Pitotless Nozzle is connected to.

It is the user's responsibility to verify that the correct chart and column is being used.

• **Little Hose Monster™ (HML).** Use this column when the Pitotless Nozzle is connected to a Little Hose Monster.

• **Open Atmosphere.** Use this column when the Pitotless Nozzle is connected directly to a test header or hydrant flowing openly to atmosphere.

This device is FM Approved. The data included in this chart has been examined and confirmed for accuracy. Please call us or instruct the Authority Having Jurisdiction to call us if there are any questions. Additional copies of flow charts are available at: www.hosemonster.com





Pitotless Nozzle™ Grooved

INSTRUCTIONS

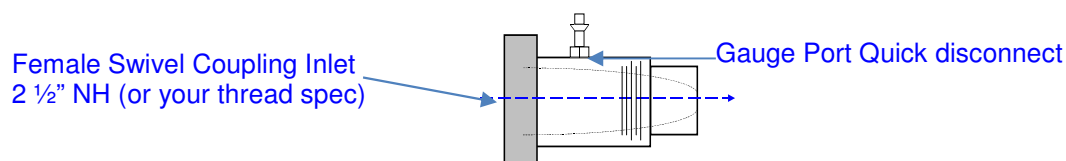
US Patent 6,874,375

The Pitotless Nozzle Grooved (PN#GRV) must be used with the Little Hose Monster (HML) **or** attached directly to a hydrant or test header valve discharging into open atmosphere. The flow chart has columns entitled Little Hose Monster™ and Open Atmosphere. Be sure to use the appropriate column to determine flow rates. *Call us if you are considering a configuration not listed here.*

SETUP

The gauge connection on the Pitotless Nozzle is a factory-installed male end of a quick disconnect coupling. One female counterpart is included and additional ones can be purchased separately. Attach the female end of the quick disconnect coupling directly to the gauge or remote reader adapter and use the quick disconnect feature to attach and remove. Do not remove the male quick disconnect from the Pitotless Nozzle as it will damage the threads on the Pitotless Nozzle.

We recommend a gauge with an accuracy rating of ½% or better and of a suitable range.



Using the Pitotless Nozzle with the Little Hose Monster™

Line up the Pitotless Nozzle outlet at the inlet of the Little Hose Monster with the gauge port rotated to 45° off either side of vertical. Push the Nozzle all the way in until the latch lever arms hook into the groove. Rotate the Nozzle right or left until the latch levers snap parallel to the body and the gauge port is in the desired position. The gauge port can be positioned so that a gauge can be viewed in a vertical position, or horizontal to the left or right side of the Little Hose Monster. Insert the locking pins all the way through the pinhole and latch-lever arm. When the Pitotless Nozzle is installed, securely attach a hose using a spanner wrench. Make sure the hose lays flat and is not twisted.

If using the Pitotless Nozzle on a Hydrant or Test Header Valve

The Pitotless Nozzle must be attached securely to a pump test header valve or hydrant. Secure the female swivel coupling of the Pitotless Nozzle directly to a hydrant nozzle or test header valve. The Pitotless Nozzle points in the direction the water will flow. Clear water discharge path.

Flow Charts

Pitotless Nozzle flow charts must be used to determine discharge flow rate. The use of flow charts of a different device or size will result in incorrect readings. Within the flow chart is a column for "Little Hose Monster" and for "Open Atmosphere". Use the "Little Hose Monster" flows if the Pitotless Nozzle is attached to a Little Hose Monster. Use the "Open Atmosphere" flows if the Pitotless Nozzle is attached directly on a hydrant or test header valve discharging out into the open. Flow charts are provided with the Pitotless Nozzle and additional copies are available on our website at www.HoseMonster.com

WARNING:

- **Do not** attach the Pitotless Nozzle to the end of a hose unless the Hose Monster is attached to it or unless it is permanently secured.
- **Do not** attach a hose to the male outlet end of the Pitotless Nozzle under any circumstance. The resulting backpressure will distort flow rate measurement.
- **Do not** remove the quick disconnect gauge port fitting. The aluminum threads will be damaged. Contact The Hose Monster Company directly for any repairs.



HOSE MONSTER
COMPANY™

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